

March 16, 2020

R. Erik Holmlin, Ph.D.
President and Chief Executive Officer
Bionano Genomics, Inc.
9540 Towne Centre Drive, Suite 100
San Diego, California 92121

Re: Bionano Genomics, Inc.
Registration Statement on Form S-1
Filed March 11, 2020
File No. 333-237074

Dear Dr. Holmlin:

This is to advise you that we have not reviewed and will not review your registration statement.

Please refer to Rules 460 and 461 regarding requests for acceleration. We remind you that the company and its management are responsible for the accuracy and adequacy of their disclosures, notwithstanding any review, comments, action or absence of action by the staff.

Please contact Jeffrey Gabor at 202-551-2544 with any questions.

Sincerely,

Division of

Office of Life

Corporation Finance

Sciences

cc: James Pennington, Esq.